

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213701

Luminaire Tested: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

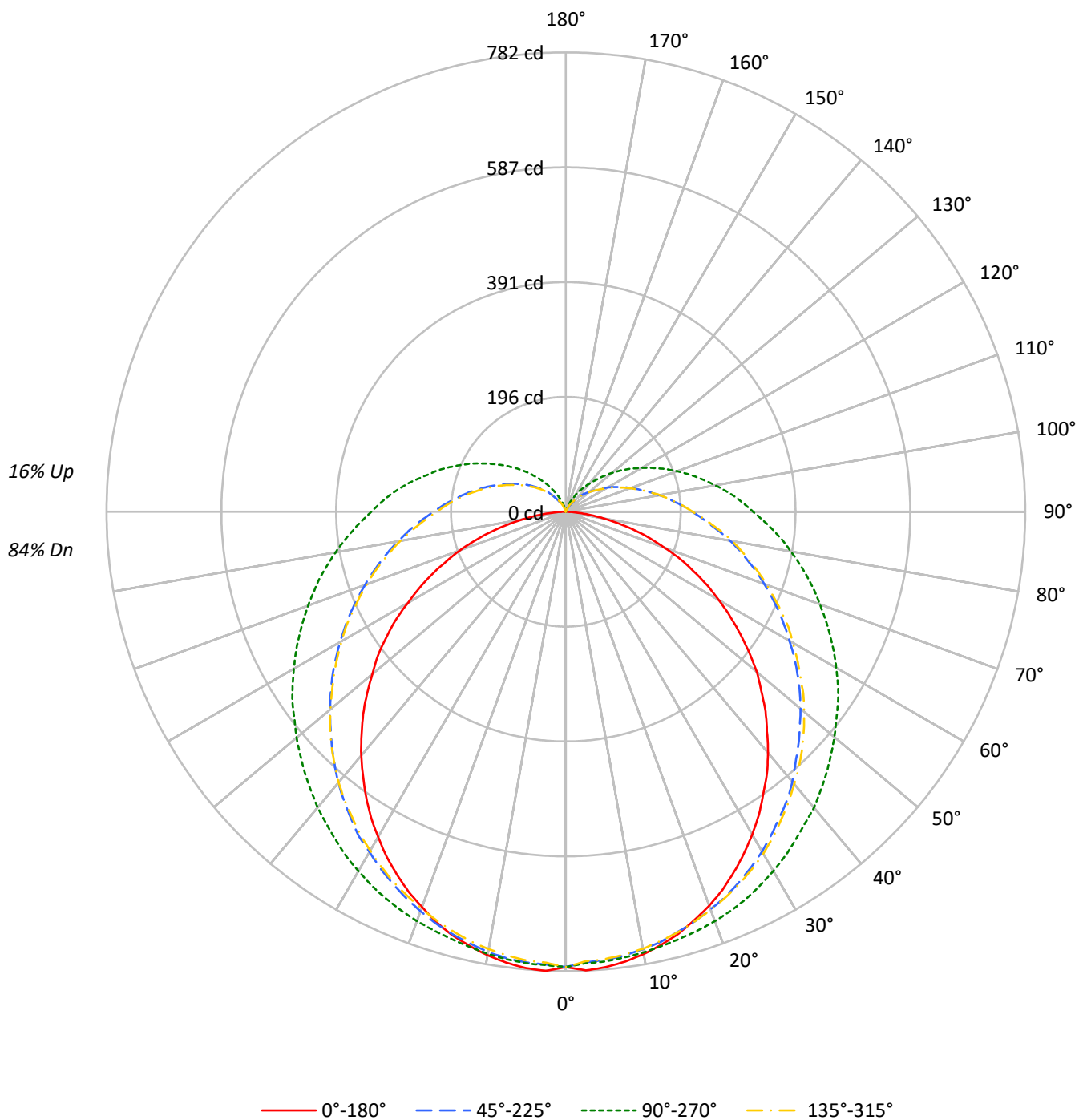
Lumens per Lamp: N/A
Luminaire Lumens: 3367.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84		
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64		
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51		
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42		
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35		
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30		
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26		
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23		
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20		
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18		
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12526	12526	12526	12526
5°	12558	12070	12584	12122
10°	12408	11728	12447	11766
15°	12229	11434	12283	11446
20°	12002	11220	12042	11220
25°	11729	11030	11800	11017
30°	11427	10833	11515	10833
35°	11079	10652	11204	10665
40°	10735	10546	10865	10546
45°	10341	10433	10498	10448
50°	9929	10368	10062	10395
55°	9367	10377	9665	10423
60°	8773	10409	9059	10472
65°	8104	10513	8464	10617
70°	7187	10706	7747	10859
75°	6127	11056	6704	11270
80°	4549	11574	5167	11842
85°	2477	12408	3094	12751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 14256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	2.2
10°-20°	211.0	6.3
20°-30°	323.5	9.6
30°-40°	399.1	11.9
40°-50°	433.0	12.9
50°-60°	426.8	12.7
60°-70°	385.8	11.5
70°-80°	321.4	9.5
80°-90°	249.0	7.4
90°-100°	188.8	5.6
100°-110°	139.7	4.1
110°-120°	97.2	2.9
120°-130°	62.0	1.8
130°-140°	34.8	1.0
140°-150°	15.9	0.5
150°-160°	4.9	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	607.9	18.1
0°-40°	1007.0	29.9
0°-60°	1866.7	55.4
0°-90°	2823.0	83.8
90°-120°	425.7	12.6
90°-150°	538.4	16.0
90°-180°	544.0	16.2
0°-180°	3367.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	775	775	775	775	775	
5°	778	768	780	772	778	74
15°	743	752	746	753	743	209
25°	677	727	681	726	677	312
35°	586	682	593	683	586	367
45°	481	628	488	629	481	370
55°	362	566	374	568	362	324
65°	240	496	251	501	240	238
75°	121	425	132	433	121	128
85°	23	354	29	364	23	28
90°	1	319	2	331	1	1
95°	1	289	1	303	1	1
105°	1	230	1	244	1	1
115°	1	175	1	190	1	1
125°	1	126	1	140	1	1
135°	1	82	1	96	1	1
145°	1	47	1	58	1	1
155°	1	20	1	27	1	0
165°	1	3	1	5	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	781.5	781.5	780.7	779.1	779.9	782.3	780.7	776.6	774.2	767.6	769.3
5°	778.3	778.3	777.4	775.8	776.6	779.9	778.3	775.0	771.7	766.0	768.4
7.5°	772.5	772.5	771.7	770.1	771.7	775.0	773.3	770.1	767.6	761.9	764.4
10°	764.4	765.2	764.4	761.9	765.2	768.4	767.6	763.5	761.1	756.2	758.6
12.5°	754.5	755.4	754.5	753.7	755.4	760.3	758.6	755.4	753.7	749.6	752.1
15°	743.1	743.9	742.3	742.3	743.9	748.8	748.8	745.6	743.9	739.8	744.7
17.5°	728.4	729.2	728.4	728.4	730.0	734.9	735.7	734.1	732.5	730.8	735.7
20°	713.7	712.9	712.9	712.0	715.3	722.7	721.8	721.8	720.2	720.2	725.9
22.5°	696.5	696.5	695.7	695.7	699.8	706.3	706.3	708.0	706.3	709.6	714.5
25°	676.9	677.7	676.9	678.5	681.8	689.1	690.0	692.4	693.2	696.5	702.2
27.5°	656.4	657.3	656.4	658.1	663.8	669.5	673.6	676.9	677.7	682.6	690.0
30°	634.4	634.4	635.2	636.8	643.4	652.4	655.6	659.7	659.7	667.9	675.3
32.5°	611.5	611.5	611.5	614.8	622.1	632.7	636.8	641.7	643.4	651.5	659.7
35°	586.1	587.0	587.0	589.4	599.2	609.9	615.6	621.3	624.6	634.4	642.6
37.5°	562.4	564.1	561.6	564.9	578.8	587.8	594.3	600.0	605.8	618.8	625.4
40°	535.5	537.1	536.3	542.8	554.3	565.7	573.1	578.8	587.0	600.0	607.4
42.5°	506.8	508.5	510.1	517.5	529.7	541.2	550.2	557.5	567.3	578.8	591.0
45°	480.7	480.7	483.1	492.1	505.2	517.5	528.1	536.3	547.7	560.0	572.2
47.5°	451.3	452.1	455.3	466.0	479.9	494.6	504.4	515.0	527.3	540.4	554.3
50°	424.3	424.3	429.2	440.6	453.7	470.1	480.7	492.9	506.0	521.6	535.5
52.5°	393.2	394.8	402.2	412.8	430.0	444.7	457.0	470.1	485.6	501.9	517.5
55°	362.1	365.4	371.1	385.9	403.8	417.7	432.5	448.8	463.5	481.5	499.5
57.5°	331.9	334.4	343.3	358.1	376.9	394.0	409.6	425.1	443.1	461.1	479.9
60°	300.8	304.1	314.7	329.5	349.9	367.9	385.9	402.2	421.0	439.8	459.4
62.5°	271.4	273.9	286.1	303.3	323.7	343.3	361.3	381.0	401.4	419.4	439.0
65°	240.3	244.4	258.3	273.9	297.6	317.2	337.6	358.9	380.1	399.8	418.6
67.5°	211.7	214.2	228.9	246.9	270.6	292.7	313.9	336.8	358.9	379.3	398.1
70°	178.2	186.4	201.1	219.9	245.2	268.1	291.0	314.7	338.4	359.7	377.7
72.5°	150.4	157.0	173.3	193.7	218.3	245.2	269.0	294.3	318.0	340.1	358.9
75°	121.0	127.5	146.3	169.2	194.6	223.2	247.7	273.9	298.4	320.5	340.1
77.5°	92.4	100.6	121.0	144.7	172.5	201.9	227.3	253.4	278.8	302.5	322.1
80°	66.2	75.2	97.3	124.3	151.2	180.7	208.5	234.6	260.0	283.7	304.1
82.5°	42.5	52.3	76.0	103.0	131.6	161.0	189.7	215.8	241.2	264.9	286.1
85°	22.9	33.5	58.0	85.0	113.6	143.1	171.7	199.5	224.0	246.1	269.0
87.5°	6.5	19.6	43.3	70.3	99.7	126.7	154.5	182.3	206.8	230.5	251.0
90°	0.8	11.4	32.7	58.0	86.7	112.8	140.6	166.8	191.3	215.0	235.4
92.5°	0.8	7.4	25.3	48.2	74.4	101.4	129.2	154.5	177.4	201.1	221.5
95°	0.8	5.7	20.4	40.9	65.4	90.7	116.9	141.4	165.1	187.2	207.6
97.5°	0.8	4.1	16.3	35.2	57.2	80.9	106.3	130.8	153.7	174.9	193.7
100°	0.8	3.3	13.1	30.2	49.9	72.8	95.6	119.4	141.4	161.9	181.5
102.5°	0.8	2.5	11.4	25.3	44.1	64.6	86.7	108.7	130.0	149.6	169.2
105°	0.8	2.5	9.8	22.1	39.2	58.0	78.5	99.7	119.4	138.2	156.1
107.5°	0.8	1.6	8.2	18.8	34.3	52.3	71.1	91.6	109.5	127.5	144.7
110°	0.8	1.6	6.5	17.2	30.2	46.6	64.6	83.4	100.6	117.7	134.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	1.6	5.7	14.7	26.2	41.7	58.0	75.2	91.6	108.7	123.4
115°	0.8	1.6	4.9	13.1	24.5	36.0	52.3	67.9	84.2	99.7	113.6
117.5°	0.8	1.6	4.1	10.6	21.3	32.7	45.8	61.3	76.0	90.7	103.8
120°	0.8	1.6	3.3	9.8	18.8	29.4	40.9	54.8	68.7	82.6	96.5
122.5°	0.8	0.8	3.3	8.2	16.3	26.2	37.6	48.2	61.3	74.4	86.7
125°	0.8	0.8	3.3	7.4	13.9	23.7	33.5	43.3	54.8	66.2	76.8
127.5°	0.8	0.8	2.5	5.7	12.3	20.4	29.4	40.1	48.2	58.9	69.5
130°	0.8	0.8	2.5	4.9	10.6	17.2	26.2	35.2	45.0	52.3	61.3
132.5°	0.8	0.8	2.5	4.1	8.2	13.9	22.1	30.2	39.2	47.4	54.8
135°	0.8	0.8	1.6	3.3	6.5	11.4	18.0	25.3	34.3	42.5	49.9
137.5°	0.8	0.8	1.6	3.3	4.9	9.8	13.9	20.4	28.6	36.0	43.3
140°	0.8	0.8	1.6	2.5	4.1	7.4	11.4	16.3	22.9	29.4	37.6
142.5°	0.8	0.8	0.8	2.5	3.3	5.7	9.0	13.1	18.0	23.7	30.2
145°	0.8	0.8	0.8	2.5	3.3	4.1	7.4	10.6	13.9	18.0	23.7
147.5°	0.8	0.8	0.8	1.6	2.5	3.3	5.7	8.2	10.6	13.9	17.2
150°	0.8	0.8	0.8	1.6	2.5	3.3	4.1	5.7	8.2	11.4	13.9
152.5°	0.8	0.8	0.8	1.6	1.6	2.5	3.3	4.1	5.7	8.2	9.8
155°	0.8	0.8	0.8	0.8	1.6	2.5	3.3	3.3	4.1	5.7	7.4
157.5°	0.8	0.8	0.8	0.8	1.6	1.6	2.5	2.5	3.3	3.3	4.9
160°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.5	2.5	2.5	2.5
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	2.5	2.5
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	769.3	770.1	772.5	772.5	770.9	770.9	770.1	769.3	770.1	771.7	771.7
5°	767.6	768.4	770.9	771.7	770.1	769.3	769.3	768.4	769.3	770.9	770.9
7.5°	764.4	765.2	767.6	768.4	766.8	766.8	766.0	765.2	766.8	767.6	767.6
10°	759.5	760.3	763.5	764.4	763.5	762.7	762.7	761.9	762.7	764.4	764.4
12.5°	752.9	754.5	758.6	758.6	758.6	757.8	757.8	757.0	757.8	759.5	758.6
15°	745.6	748.8	752.1	753.7	753.7	753.7	752.9	752.1	753.7	754.5	753.7
17.5°	737.4	741.5	746.4	748.0	748.0	748.8	748.0	747.2	748.8	748.8	748.0
20°	729.2	733.3	738.2	739.8	741.5	742.3	742.3	741.5	742.3	743.1	742.3
22.5°	718.6	723.5	729.2	731.7	733.3	734.9	734.9	734.9	735.7	736.6	734.9
25°	707.1	712.9	719.4	721.8	725.1	725.9	726.8	726.8	727.6	728.4	725.9
27.5°	694.9	701.4	708.0	712.0	714.5	716.1	716.1	716.9	717.8	718.6	716.1
30°	680.2	690.0	695.7	699.0	702.2	704.7	705.5	706.3	707.1	708.0	705.5
32.5°	667.1	675.3	682.6	686.7	690.8	694.1	694.9	694.9	696.5	696.5	694.1
35°	651.5	661.4	668.7	672.8	677.7	680.2	681.8	681.8	683.4	683.4	681.0
37.5°	636.0	645.8	654.0	658.9	664.6	667.9	668.7	668.7	670.3	670.3	667.1
40°	619.7	630.3	639.3	645.0	649.9	654.0	654.8	657.3	657.3	656.4	653.2
42.5°	603.3	613.1	622.9	629.5	636.0	640.1	641.7	642.6	642.6	641.7	639.3
45°	585.3	596.8	605.8	613.9	620.5	624.6	627.0	627.8	627.8	626.2	623.7
47.5°	568.2	579.6	588.6	597.6	604.1	609.0	611.5	612.3	611.5	610.7	608.2
50°	550.2	563.3	572.2	581.2	587.8	591.9	596.0	596.8	596.0	595.1	590.2
52.5°	531.4	545.3	555.1	564.1	571.4	576.3	579.6	580.4	580.4	578.8	575.5
55°	512.6	524.8	537.1	546.9	555.1	560.0	564.1	565.7	564.1	562.4	558.3
57.5°	495.4	506.8	519.1	529.7	537.9	544.5	547.7	549.4	547.7	545.3	541.2
60°	475.0	487.2	501.1	510.9	519.9	526.5	528.1	531.4	529.7	527.3	523.2
62.5°	455.3	470.1	482.3	494.6	501.9	509.3	512.6	514.2	512.6	510.1	506.0
65°	434.9	451.3	463.5	475.8	484.0	491.3	495.4	496.2	494.6	492.1	488.0
67.5°	416.1	431.6	444.7	457.8	465.2	472.5	476.6	478.2	476.6	473.3	469.2
70°	397.3	412.8	428.4	438.2	447.2	455.3	457.8	460.2	458.6	455.3	450.4
72.5°	378.5	394.8	410.4	420.2	430.0	437.4	440.6	443.1	441.4	438.2	432.5
75°	358.9	376.0	391.6	402.2	412.0	419.4	422.6	425.1	423.5	420.2	413.7
77.5°	340.9	358.1	372.8	384.2	394.0	400.6	406.3	407.1	405.5	402.2	395.7
80°	322.1	339.3	354.8	366.2	376.0	382.6	386.7	389.1	387.5	384.2	377.7
82.5°	305.7	321.3	336.8	348.3	358.1	366.2	369.5	372.0	371.1	366.2	361.3
85°	287.8	305.7	318.0	330.3	340.1	348.3	350.7	354.0	353.2	349.1	342.5
87.5°	269.8	287.8	302.5	314.7	323.7	330.3	334.4	336.0	335.2	331.1	323.7
90°	255.1	271.4	286.1	299.2	306.6	313.9	318.0	318.8	318.8	313.9	308.2
92.5°	241.2	256.7	271.4	283.7	292.7	299.2	302.5	304.1	303.3	299.2	292.7
95°	225.6	242.8	256.7	269.0	277.9	284.5	287.8	289.4	288.6	284.5	277.9
97.5°	212.5	228.1	242.0	253.4	262.4	269.0	272.2	273.9	273.9	269.8	263.2
100°	199.5	215.0	228.1	239.5	247.7	254.2	257.5	258.3	257.5	254.2	247.7
102.5°	186.4	201.1	214.2	224.8	233.8	239.5	242.8	243.6	243.6	239.5	233.0
105°	173.3	188.0	200.3	211.7	219.1	224.8	227.3	229.7	228.9	225.6	219.1
107.5°	161.0	175.8	187.2	197.8	205.2	210.9	213.4	215.8	215.0	211.7	205.2
110°	149.6	163.5	174.1	184.8	191.3	197.0	201.1	201.9	200.3	197.0	191.3

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	139.0	151.2	161.9	171.7	179.0	183.1	186.4	188.0	186.4	183.1	179.0
115°	127.5	139.8	150.4	159.4	166.0	170.9	173.3	174.9	173.3	170.0	166.0
117.5°	116.9	128.3	139.0	148.0	153.7	157.8	160.2	161.9	160.2	157.8	153.7
120°	107.9	117.7	127.5	135.7	142.2	145.5	148.0	149.6	148.8	145.5	141.4
122.5°	97.3	107.9	116.9	125.1	130.8	134.1	135.7	137.3	136.5	134.1	130.0
125°	88.3	97.3	106.3	113.6	119.4	122.6	124.3	125.9	125.1	122.6	117.7
127.5°	78.5	88.3	95.6	103.0	107.1	112.0	112.8	114.4	113.6	111.2	107.1
130°	71.1	78.5	85.8	92.4	97.3	100.6	102.2	103.0	101.4	99.7	95.6
132.5°	62.1	70.3	76.8	82.6	85.8	89.1	90.7	91.6	91.6	89.1	85.8
135°	55.6	61.3	67.0	72.8	76.0	79.3	80.9	81.7	80.9	79.3	76.0
137.5°	49.9	54.8	58.9	63.8	67.9	69.5	71.1	71.1	70.3	69.5	67.0
140°	43.3	49.0	53.1	56.4	59.7	60.5	62.1	62.1	61.3	60.5	58.9
142.5°	36.8	41.7	45.8	49.9	52.3	54.0	54.8	55.6	54.8	54.0	51.5
145°	29.4	35.2	39.2	41.7	45.0	45.8	46.6	47.4	46.6	45.8	43.3
147.5°	22.9	27.8	31.9	35.2	37.6	38.4	39.2	40.1	39.2	37.6	36.8
150°	16.3	20.4	25.3	28.6	30.2	31.9	31.9	31.9	32.7	31.1	29.4
152.5°	13.1	14.7	18.0	21.3	23.7	24.5	25.3	25.3	24.5	24.5	22.9
155°	9.0	10.6	13.1	15.5	18.0	18.8	19.6	19.6	18.8	18.8	18.0
157.5°	5.7	7.4	9.0	10.6	13.1	13.9	14.7	14.7	14.7	13.9	13.1
160°	3.3	4.1	4.9	6.5	8.2	9.0	9.8	9.8	9.8	9.8	9.0
162.5°	2.5	2.5	2.5	3.3	4.1	4.9	5.7	5.7	5.7	5.7	4.9
165°	1.6	1.6	1.6	1.6	1.6	2.5	3.3	3.3	3.3	3.3	3.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	770.9	770.9	771.7	770.1	765.2	766.0	766.0	769.3	770.9	771.7	775.8
5°	769.3	769.3	770.9	768.4	764.4	764.4	764.4	767.6	768.4	770.1	773.3
7.5°	766.8	766.8	767.6	765.2	760.3	760.3	759.5	762.7	764.4	765.2	768.4
10°	762.7	762.7	763.5	761.1	755.4	755.4	754.5	757.0	757.8	759.5	761.9
12.5°	757.0	757.0	757.0	754.5	748.8	748.0	747.2	749.6	749.6	750.5	752.9
15°	752.1	750.5	750.5	748.0	742.3	740.6	739.0	739.8	741.5	740.6	742.3
17.5°	746.4	744.7	743.1	740.6	733.3	730.8	729.2	730.0	729.2	728.4	730.0
20°	739.8	737.4	736.6	732.5	725.1	721.0	717.8	716.1	716.9	714.5	715.3
22.5°	732.5	729.2	727.6	722.7	715.3	710.4	706.3	703.0	702.2	699.0	699.8
25°	723.5	719.4	716.9	712.9	704.7	699.0	694.1	689.1	686.7	682.6	681.8
27.5°	712.9	708.8	705.5	701.4	693.2	685.9	680.2	673.6	670.3	665.4	663.0
30°	702.2	697.3	692.4	689.1	680.2	672.0	663.0	657.3	652.4	646.6	642.6
32.5°	689.1	684.2	679.3	674.4	666.3	656.4	649.1	640.1	634.4	627.8	622.9
35°	676.1	669.5	664.6	658.1	650.7	639.3	630.3	621.3	613.9	606.6	600.9
37.5°	661.4	656.4	649.1	643.4	634.4	622.9	613.1	601.7	595.1	585.3	578.0
40°	647.5	641.7	634.4	627.0	618.0	604.9	594.3	581.2	573.9	562.4	555.1
42.5°	633.6	625.4	618.0	609.9	600.0	587.8	574.7	561.6	551.8	541.2	530.6
45°	618.0	609.0	600.0	591.0	581.2	569.0	555.1	541.2	528.9	519.1	506.0
47.5°	601.7	592.7	582.1	572.2	561.6	549.4	534.6	519.9	506.8	495.4	481.5
50°	585.3	576.3	564.9	554.3	542.0	529.7	514.2	497.0	483.1	468.4	456.2
52.5°	568.2	559.2	548.5	534.6	521.6	509.3	492.9	475.0	459.4	447.2	431.6
55°	551.0	542.0	529.7	515.8	502.8	487.2	471.7	453.7	436.5	421.8	406.3
57.5°	533.0	524.8	510.9	499.5	483.1	466.8	450.4	433.3	414.5	397.3	379.3
60°	515.0	506.0	492.9	479.1	462.7	446.4	429.2	410.4	390.8	372.0	355.6
62.5°	498.7	487.2	475.0	460.2	443.1	427.5	407.9	387.5	367.9	348.3	328.6
65°	479.9	467.6	456.2	441.4	423.5	405.5	385.9	365.4	344.2	322.9	303.3
67.5°	461.1	448.8	436.5	421.8	403.0	384.2	363.8	343.3	319.6	299.2	276.3
70°	442.3	432.5	416.9	401.4	384.2	363.8	343.3	321.3	296.8	274.7	251.0
72.5°	423.5	413.7	398.1	381.8	365.4	344.2	322.1	300.0	277.1	251.8	226.4
75°	405.5	393.2	379.3	363.8	346.6	324.5	302.5	279.6	252.6	228.9	202.7
77.5°	388.3	376.9	363.0	345.8	327.0	305.7	282.9	259.1	232.2	206.8	178.2
80°	369.5	358.1	344.2	327.0	308.2	287.8	263.2	238.7	212.5	184.8	155.3
82.5°	351.5	340.9	325.4	309.8	289.4	269.0	244.4	219.9	192.1	165.1	136.5
85°	332.7	322.1	307.4	291.0	271.4	249.3	226.4	201.9	174.1	146.3	117.7
87.5°	316.4	304.1	289.4	273.0	253.4	232.2	210.1	183.9	157.0	130.0	100.6
90°	299.2	287.8	273.0	256.7	237.1	215.8	192.9	168.4	142.2	114.4	86.7
92.5°	284.5	272.2	258.3	242.0	222.4	201.9	179.0	154.5	129.2	102.2	75.2
95°	269.8	257.5	244.4	228.1	208.5	188.0	165.1	141.4	116.9	90.7	65.4
97.5°	253.4	242.8	229.7	214.2	194.6	174.9	152.9	130.0	106.3	80.9	57.2
100°	240.3	228.1	215.8	199.5	181.5	162.7	140.6	118.5	95.6	71.9	49.9
102.5°	225.6	214.2	201.9	186.4	168.4	149.6	129.2	107.9	86.7	64.6	43.3
105°	211.7	201.1	188.0	173.3	156.1	138.2	118.5	98.9	78.5	57.2	38.4
107.5°	197.8	187.2	174.9	161.0	144.7	126.7	108.7	89.1	70.3	51.5	34.3
110°	183.9	174.1	162.7	148.8	133.3	116.9	99.7	81.7	62.9	45.8	30.2

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.7	161.9	150.4	137.3	122.6	107.1	90.7	73.6	56.4	40.9	26.2
115°	159.4	150.4	139.0	127.5	112.8	98.1	82.6	66.2	50.7	36.8	22.9
117.5°	147.1	138.2	127.5	116.1	103.0	89.1	74.4	58.9	45.8	32.7	20.4
120°	134.9	126.7	116.9	106.3	94.8	80.9	66.2	53.1	40.9	28.6	18.0
122.5°	123.4	116.1	107.1	97.3	85.0	71.9	59.7	48.2	36.8	25.3	14.7
125°	112.8	105.5	97.3	87.5	76.0	64.6	54.0	43.3	31.9	22.1	12.3
127.5°	102.2	94.8	86.7	77.7	68.7	58.0	48.2	38.4	28.6	19.6	10.6
130°	91.6	85.0	77.7	70.3	61.3	51.5	43.3	33.5	24.5	15.5	9.0
132.5°	80.9	76.0	69.5	62.1	54.0	46.6	37.6	29.4	21.3	13.9	8.2
135°	71.9	67.0	61.3	54.8	48.2	40.9	32.7	25.3	18.0	11.4	6.5
137.5°	63.8	59.7	54.0	48.2	42.5	35.2	28.6	21.3	14.7	9.8	4.9
140°	56.4	52.3	47.4	41.7	36.8	30.2	23.7	17.2	13.1	8.2	4.1
142.5°	49.0	45.0	40.9	36.0	31.1	25.3	19.6	14.7	10.6	6.5	4.1
145°	41.7	38.4	34.3	30.2	25.3	20.4	16.3	12.3	8.2	4.9	3.3
147.5°	34.3	31.9	27.8	24.5	20.4	16.3	13.1	9.8	6.5	4.1	2.5
150°	27.8	25.3	22.1	18.8	16.3	13.1	10.6	7.4	4.9	4.1	2.5
152.5°	21.3	19.6	17.2	15.5	13.1	9.8	7.4	5.7	4.1	3.3	1.6
155°	17.2	15.5	13.9	11.4	9.8	7.4	5.7	4.1	3.3	2.5	1.6
157.5°	12.3	11.4	9.8	8.2	6.5	4.9	4.1	4.1	2.5	1.6	0.8
160°	8.2	7.4	6.5	4.9	4.1	4.1	3.3	2.5	1.6	1.6	0.8
162.5°	4.9	4.1	4.1	4.1	3.3	3.3	2.5	1.6	1.6	0.8	0.8
165°	3.3	3.3	3.3	2.5	2.5	2.5	1.6	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	775.8	773.3	776.6	782.3	783.2	782.3	780.7	783.2	786.4	785.6	779.9
5°	774.2	770.9	774.2	779.9	779.9	779.1	778.3	780.7	784.0	783.2	778.3
7.5°	769.3	766.0	769.3	774.2	775.0	773.3	773.3	775.8	779.1	778.3	774.2
10°	762.7	759.5	761.1	766.8	768.4	766.8	766.8	769.3	773.3	772.5	767.6
12.5°	752.9	750.5	752.1	757.0	758.6	757.8	757.0	760.3	764.4	764.4	759.5
15°	742.3	739.0	740.6	746.4	747.2	745.6	746.4	748.8	753.7	753.7	749.6
17.5°	730.0	725.9	728.4	732.5	733.3	733.3	733.3	736.6	742.3	741.5	738.2
20°	716.1	710.4	712.0	716.1	717.8	717.8	717.8	723.5	727.6	727.6	724.3
22.5°	699.8	695.7	695.7	699.8	702.2	701.4	701.4	706.3	712.0	711.2	711.2
25°	681.0	677.7	676.1	681.0	681.8	682.6	684.2	689.1	695.7	695.7	696.5
27.5°	661.4	658.1	657.3	661.4	662.2	663.0	664.6	670.3	676.9	677.7	679.3
30°	642.6	637.6	636.0	639.3	640.9	641.7	641.7	650.7	656.4	658.9	662.2
32.5°	620.5	615.6	611.5	617.2	618.0	619.7	620.5	629.5	636.0	640.1	645.0
35°	598.4	590.2	588.6	592.7	594.3	595.1	596.8	606.6	615.6	618.8	625.4
37.5°	573.9	568.2	563.3	567.3	569.0	569.8	574.7	583.7	592.7	597.6	604.1
40°	551.0	543.6	539.5	542.0	543.6	544.5	550.2	560.0	570.6	576.3	584.5
42.5°	525.6	515.8	512.6	515.0	515.8	518.3	523.2	536.3	546.9	555.1	561.6
45°	500.3	492.9	485.6	488.0	488.9	490.5	497.9	511.8	523.2	533.0	540.4
47.5°	474.1	465.2	457.8	459.4	462.7	463.5	471.7	488.0	498.7	509.3	519.1
50°	448.0	435.7	430.0	430.0	431.6	435.7	446.4	462.7	474.1	486.4	497.0
52.5°	421.0	409.6	403.0	403.8	405.5	410.4	420.2	436.5	449.6	462.7	475.8
55°	394.0	381.8	375.2	373.6	375.2	381.8	393.2	410.4	423.5	439.0	452.9
57.5°	367.1	352.3	346.6	344.2	345.8	354.0	365.4	383.4	399.8	414.5	430.8
60°	337.6	326.2	316.4	310.6	314.7	325.4	337.6	356.4	373.6	389.9	407.9
62.5°	312.3	297.6	286.9	281.2	285.3	294.3	311.5	329.5	348.3	367.1	385.0
65°	283.7	269.0	256.7	251.0	255.1	265.7	282.9	302.5	322.9	341.7	363.0
67.5°	255.9	240.3	225.6	219.9	224.8	236.3	255.1	277.1	299.2	318.8	341.7
70°	228.9	211.7	196.2	192.1	195.4	210.9	228.9	251.0	273.9	296.8	320.5
72.5°	204.4	183.1	166.8	161.9	166.0	183.1	203.6	226.4	251.0	275.5	300.8
75°	175.8	156.1	138.2	132.4	137.3	152.9	178.2	202.7	228.9	255.1	278.8
77.5°	152.9	130.0	111.2	102.2	110.4	130.0	154.5	180.7	207.6	234.6	261.6
80°	129.2	105.5	85.0	75.2	84.2	105.5	130.0	158.6	188.8	215.8	240.3
82.5°	107.9	82.6	61.3	50.7	60.5	84.2	111.2	139.8	169.2	196.2	224.8
85°	88.3	62.1	40.1	28.6	42.5	63.8	92.4	121.8	152.1	179.8	207.6
87.5°	71.9	46.6	24.5	12.3	26.2	49.9	76.8	106.3	136.5	164.3	190.5
90°	58.9	33.5	13.1	1.6	15.5	37.6	63.8	92.4	121.0	149.6	175.8
92.5°	48.2	25.3	7.4	0.8	9.8	30.2	54.8	81.7	109.5	137.3	162.7
95°	40.1	19.6	4.9	0.8	7.4	23.7	46.6	72.8	98.9	125.9	151.2
97.5°	34.3	16.3	4.1	0.8	5.7	20.4	40.1	64.6	89.9	115.3	139.8
100°	29.4	13.1	3.3	0.8	4.9	17.2	35.2	57.2	80.9	105.5	129.2
102.5°	25.3	10.6	2.5	0.8	4.1	14.7	31.1	51.5	72.8	96.5	119.4
105°	22.1	9.0	2.5	0.8	3.3	13.1	27.8	45.8	67.0	88.3	110.4
107.5°	18.8	7.4	1.6	0.8	2.5	10.6	24.5	41.7	60.5	80.9	101.4
110°	16.3	6.5	1.6	0.8	2.5	9.8	21.3	37.6	54.8	73.6	93.2

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.9	4.9	1.6	0.8	1.6	8.2	18.8	33.5	49.9	67.0	85.8
115°	12.3	4.1	0.8	0.8	1.6	7.4	17.2	30.2	45.0	61.3	78.5
117.5°	9.8	3.3	0.8	0.8	0.8	5.7	14.7	27.0	40.9	56.4	71.9
120°	8.2	3.3	0.8	0.8	0.8	4.9	13.1	23.7	36.8	50.7	65.4
122.5°	7.4	2.5	0.8	0.8	0.8	4.1	11.4	21.3	32.7	45.8	59.7
125°	6.5	2.5	0.8	0.8	0.8	3.3	9.8	18.8	29.4	40.9	54.0
127.5°	4.9	2.5	0.8	0.8	0.8	2.5	9.0	16.3	26.2	36.8	48.2
130°	4.1	1.6	0.8	0.8	0.8	2.5	7.4	14.7	22.9	32.7	43.3
132.5°	3.3	1.6	0.8	0.8	0.8	1.6	5.7	11.4	19.6	28.6	38.4
135°	3.3	1.6	0.8	0.8	0.8	1.6	4.1	9.8	16.3	24.5	32.7
137.5°	3.3	0.8	0.8	0.8	0.8	1.6	3.3	7.4	13.1	19.6	27.0
140°	2.5	0.8	0.8	0.8	0.8	0.8	2.5	5.7	10.6	16.3	22.9
142.5°	2.5	0.8	0.8	0.8	0.8	0.8	2.5	4.1	8.2	13.1	18.0
145°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	3.3	6.5	9.8	14.7
147.5°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.5	4.9	8.2	11.4
150°	1.6	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3	5.7	9.0
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.5	4.1	5.7
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3	4.1
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.5	3.3
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	2.5
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	777.4	771.7	773.3	772.5	774.2	776.6	776.6	775.8	775.8	774.2	772.5
5°	775.8	770.1	772.5	771.7	773.3	775.8	775.8	775.0	775.0	772.5	771.7
7.5°	770.9	766.8	768.4	768.4	770.1	772.5	772.5	771.7	771.7	769.3	768.4
10°	766.0	761.1	763.5	763.5	765.2	768.4	768.4	767.6	767.6	765.2	764.4
12.5°	757.8	752.9	757.0	757.8	759.5	762.7	761.9	761.9	761.9	759.5	758.6
15°	748.0	744.7	748.8	749.6	752.1	756.2	756.2	756.2	756.2	753.7	752.9
17.5°	737.4	734.9	739.0	740.6	743.9	748.0	748.0	748.8	749.6	748.0	747.2
20°	725.1	723.5	727.6	730.8	735.7	739.8	741.5	742.3	743.9	742.3	741.5
22.5°	711.2	711.2	716.9	720.2	725.9	730.0	732.5	734.9	736.6	734.9	734.1
25°	695.7	698.1	703.9	709.6	716.1	720.2	722.7	725.9	727.6	726.8	725.9
27.5°	681.0	684.2	691.6	697.3	703.0	709.6	712.0	716.1	717.8	717.8	716.9
30°	663.8	668.7	676.9	683.4	690.8	697.3	700.6	704.7	707.1	705.5	706.3
32.5°	647.5	655.6	662.2	669.5	677.7	684.2	688.3	693.2	695.7	694.9	695.7
35°	629.5	637.6	646.6	654.0	663.8	670.3	676.1	680.2	683.4	682.6	682.6
37.5°	609.9	620.5	629.5	639.3	648.3	655.6	661.4	666.3	669.5	669.5	669.5
40°	591.0	602.5	611.5	622.9	634.4	640.9	647.5	652.4	655.6	656.4	657.3
42.5°	570.6	582.9	593.5	605.8	617.2	625.4	632.7	638.5	641.7	643.4	642.6
45°	551.8	563.3	575.5	589.4	600.0	608.2	617.2	623.7	627.0	627.8	628.7
47.5°	530.6	543.6	557.5	571.4	582.1	592.7	600.9	607.4	610.7	613.1	613.1
50°	510.1	524.0	539.5	554.3	565.7	576.3	584.5	591.9	596.0	597.6	598.4
52.5°	491.3	504.4	520.7	535.5	546.9	557.5	568.2	576.3	580.4	582.1	582.1
55°	468.4	484.8	502.8	516.7	528.9	541.2	551.8	560.0	564.1	566.5	568.2
57.5°	447.2	464.3	483.1	497.9	512.6	524.0	533.8	544.5	547.7	551.0	551.8
60°	426.7	443.9	461.9	478.2	492.9	505.2	516.7	525.6	531.4	533.0	534.6
62.5°	405.5	423.5	442.3	458.6	474.1	488.9	499.5	507.7	514.2	516.7	518.3
65°	385.0	403.8	422.6	439.8	456.2	470.9	481.5	489.7	496.2	500.3	501.1
67.5°	363.0	383.4	403.0	421.0	437.4	452.9	463.5	471.7	478.2	483.1	484.0
70°	342.5	363.8	383.4	403.0	419.4	434.9	446.4	454.5	461.9	465.2	466.8
72.5°	322.9	345.0	365.4	385.0	401.4	416.9	429.2	437.4	444.7	448.8	449.6
75°	304.1	326.2	348.3	367.1	384.2	399.8	412.0	421.0	427.5	431.6	433.3
77.5°	285.3	308.2	330.3	349.1	367.1	382.6	393.2	403.8	410.4	415.3	415.3
80°	266.5	290.2	313.1	331.9	349.9	363.8	376.0	386.7	393.2	398.1	398.1
82.5°	250.2	273.0	295.1	313.9	331.9	347.4	359.7	369.5	376.9	380.1	381.0
85°	231.4	256.7	277.1	297.6	314.7	329.5	341.7	352.3	358.9	362.1	363.8
87.5°	215.8	240.3	262.4	280.4	297.6	312.3	326.2	335.2	341.7	345.8	347.4
90°	201.1	224.8	246.9	264.9	282.9	296.8	309.8	318.8	326.2	329.5	331.1
92.5°	188.0	211.7	233.0	251.0	268.1	283.7	295.9	304.9	311.5	314.7	317.2
95°	175.8	198.7	219.1	238.7	255.1	269.0	282.0	291.0	298.4	300.8	303.3
97.5°	163.5	185.6	206.0	224.8	242.0	255.1	267.3	276.3	282.0	286.1	288.6
100°	152.9	174.1	193.7	211.7	228.1	240.3	253.4	261.6	267.3	270.6	273.9
102.5°	141.4	162.7	181.5	198.7	215.8	227.3	239.5	247.7	252.6	258.3	258.3
105°	131.6	151.2	170.0	186.4	201.1	215.0	225.6	233.8	239.5	243.6	243.6
107.5°	121.0	140.6	158.6	175.8	189.7	202.7	212.5	219.9	226.4	228.9	231.4
110°	112.8	130.0	148.0	164.3	177.4	189.7	199.5	207.6	213.4	215.8	217.5

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	103.0	121.0	137.3	152.9	166.0	177.4	187.2	193.7	199.5	202.7	203.6
115°	94.8	112.0	126.7	141.4	155.3	165.1	174.1	180.7	186.4	188.8	190.5
117.5°	87.5	103.0	117.7	130.0	143.1	153.7	162.7	168.4	173.3	176.6	178.2
120°	80.1	94.8	107.9	120.2	132.4	142.2	150.4	156.1	161.9	164.3	164.3
122.5°	72.8	86.7	98.9	110.4	121.8	130.8	139.8	144.7	149.6	152.1	152.1
125°	66.2	79.3	90.7	101.4	112.0	120.2	127.5	133.3	138.2	139.8	139.8
127.5°	59.7	71.9	82.6	92.4	101.4	109.5	116.9	122.6	126.7	128.3	128.3
130°	54.0	64.6	74.4	84.2	93.2	99.7	107.1	112.0	114.4	116.9	117.7
132.5°	48.2	58.0	67.0	75.2	84.2	90.7	96.5	101.4	103.8	106.3	107.1
135°	42.5	51.5	59.7	67.9	75.2	81.7	86.7	90.7	94.0	95.6	96.5
137.5°	36.0	45.8	53.1	59.7	67.9	72.8	78.5	80.9	84.2	85.8	85.8
140°	30.2	37.6	45.8	52.3	58.9	63.8	68.7	72.8	75.2	76.0	76.0
142.5°	24.5	31.1	37.6	45.8	51.5	55.6	60.5	63.8	65.4	66.2	67.0
145°	19.6	24.5	30.2	37.6	44.1	49.0	51.5	54.8	56.4	57.2	58.0
147.5°	14.7	19.6	24.5	29.4	36.0	40.9	43.3	46.6	48.2	49.0	49.0
150°	11.4	14.7	18.0	22.9	27.8	33.5	36.8	39.2	40.1	40.9	40.9
152.5°	8.2	11.4	13.9	17.2	20.4	25.3	30.2	31.9	32.7	33.5	33.5
155°	5.7	8.2	9.8	12.3	14.7	18.8	22.9	25.3	26.2	27.0	27.0
157.5°	4.1	5.7	6.5	9.0	10.6	12.3	15.5	19.6	20.4	20.4	20.4
160°	2.5	3.3	4.1	5.7	6.5	8.2	9.8	12.3	14.7	14.7	14.7
162.5°	1.6	2.5	2.5	3.3	3.3	4.9	5.7	6.5	9.0	9.8	9.8
165°	0.8	1.6	1.6	1.6	1.6	1.6	2.5	2.5	4.1	4.9	4.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	773.3	775.0	774.2	774.2	774.2	775.8	774.2	766.8	768.4	770.1	771.7
5°	772.5	773.3	773.3	772.5	772.5	774.2	772.5	765.2	766.8	768.4	769.3
7.5°	769.3	770.1	770.1	770.1	769.3	770.9	768.4	761.9	761.9	763.5	764.4
10°	765.2	766.8	766.0	765.2	765.2	765.2	763.5	756.2	756.2	757.0	757.8
12.5°	760.3	760.3	760.3	759.5	758.6	758.6	757.0	749.6	748.8	750.5	749.6
15°	753.7	755.4	753.7	752.9	751.3	751.3	748.8	741.5	739.8	740.6	739.8
17.5°	748.0	748.8	747.2	745.6	743.9	743.1	740.6	732.5	730.0	730.8	729.2
20°	742.3	742.3	740.6	739.0	736.6	734.1	730.8	722.7	718.6	718.6	715.3
22.5°	734.9	734.9	733.3	730.8	728.4	725.1	721.8	713.7	707.1	705.5	703.0
25°	726.8	725.9	725.1	722.7	717.8	714.5	711.2	702.2	694.9	691.6	687.5
27.5°	716.9	716.9	714.5	712.0	707.1	703.0	699.0	690.8	681.0	676.9	671.2
30°	706.3	706.3	703.9	700.6	695.7	690.8	685.9	676.1	666.3	660.5	654.0
32.5°	695.7	694.9	692.4	689.1	684.2	676.9	672.8	663.0	651.5	645.0	636.0
35°	682.6	681.8	679.3	675.3	668.7	663.0	656.4	647.5	634.4	626.2	616.4
37.5°	669.5	668.7	667.1	661.4	654.8	648.3	640.1	631.1	618.8	608.2	598.4
40°	656.4	655.6	652.4	648.3	640.1	631.9	623.7	614.8	601.7	589.4	578.8
42.5°	642.6	641.7	637.6	632.7	623.7	615.6	605.8	596.0	582.9	568.2	557.5
45°	628.7	627.0	622.9	617.2	607.4	598.4	588.6	577.2	564.1	550.2	536.3
47.5°	613.9	611.5	607.4	599.2	591.0	581.2	569.8	557.5	544.5	528.9	514.2
50°	597.6	596.0	591.0	583.7	573.9	564.1	551.0	538.7	523.2	508.5	490.5
52.5°	582.1	578.8	574.7	566.5	556.7	546.1	532.2	517.5	501.9	488.0	469.2
55°	565.7	564.1	558.3	551.8	539.5	527.3	514.2	498.7	481.5	465.2	447.2
57.5°	550.2	546.9	542.0	533.0	522.4	510.1	496.2	479.9	461.1	443.9	424.3
60°	534.6	529.7	524.0	515.8	504.4	491.3	476.6	459.4	440.6	421.8	401.4
62.5°	517.5	513.4	506.8	498.7	487.2	473.3	457.8	439.8	421.8	402.2	380.1
65°	500.3	496.2	489.7	481.5	470.1	454.5	438.2	420.2	399.8	381.0	357.2
67.5°	483.1	479.1	471.7	462.7	451.3	436.5	419.4	400.6	380.1	359.7	335.2
70°	466.0	461.1	454.5	444.7	433.3	417.7	400.6	381.0	360.5	338.4	313.9
72.5°	448.8	444.7	436.5	427.5	415.3	399.8	382.6	363.0	341.7	318.8	294.3
75°	431.6	426.7	421.0	410.4	397.3	382.6	364.6	345.0	322.1	300.0	274.7
77.5°	414.5	410.4	403.0	392.4	380.1	364.6	346.6	327.0	304.1	281.2	254.2
80°	397.3	392.4	386.7	376.9	363.0	347.4	328.6	309.0	286.1	262.4	235.4
82.5°	380.1	375.2	368.7	358.9	345.8	330.3	312.3	291.0	268.1	243.6	218.3
85°	363.0	358.9	351.5	341.7	327.8	312.3	294.3	275.5	251.0	226.4	201.1
87.5°	345.8	341.7	334.4	324.5	311.5	295.9	277.9	258.3	234.6	211.7	183.9
90°	329.5	326.2	318.8	309.0	295.9	280.4	264.1	242.8	219.9	197.0	170.9
92.5°	314.7	311.5	304.9	295.1	283.7	266.5	250.2	229.7	206.8	183.1	157.8
95°	301.7	297.6	291.0	282.0	268.1	253.4	237.1	216.6	194.6	170.9	146.3
97.5°	286.9	282.9	276.3	266.5	255.1	239.5	223.2	203.6	181.5	159.4	134.9
100°	272.2	268.1	260.8	252.6	241.2	225.6	210.1	190.5	170.0	148.8	125.1
102.5°	257.5	253.4	246.9	238.7	227.3	213.4	197.8	179.0	158.6	137.3	115.3
105°	243.6	239.5	233.0	224.8	214.2	200.3	183.9	167.6	148.0	127.5	106.3
107.5°	229.7	225.6	219.9	211.7	201.1	188.0	172.5	155.3	137.3	117.7	97.3
110°	215.8	212.5	206.0	198.7	188.0	174.9	161.0	144.7	126.7	108.7	89.1

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	202.7	199.5	192.9	184.8	175.8	163.5	149.6	134.1	116.9	99.7	80.9
115°	189.7	185.6	179.8	172.5	163.5	152.1	139.0	125.1	107.9	91.6	74.4
117.5°	176.6	173.3	167.6	160.2	152.1	140.6	128.3	115.3	98.9	83.4	67.9
120°	163.5	161.0	155.3	148.8	140.6	130.0	118.5	105.5	90.7	76.0	61.3
122.5°	151.2	148.8	143.1	137.3	129.2	119.4	108.7	96.5	83.4	69.5	56.4
125°	139.8	136.5	131.6	125.9	118.5	109.5	98.9	87.5	75.2	62.9	50.7
127.5°	127.5	125.1	121.8	115.3	107.9	99.7	89.9	80.1	68.7	57.2	45.8
130°	117.7	114.4	110.4	105.5	98.9	90.7	81.7	71.9	62.1	51.5	40.1
132.5°	106.3	103.0	99.7	94.8	89.1	81.7	73.6	64.6	55.6	45.8	36.0
135°	95.6	93.2	89.9	85.0	79.3	73.6	65.4	57.2	49.0	40.1	31.9
137.5°	85.8	83.4	80.1	76.8	71.1	65.4	58.0	50.7	43.3	35.2	27.8
140°	76.0	74.4	71.1	67.9	62.9	57.2	50.7	44.1	37.6	30.2	23.7
142.5°	66.2	64.6	62.1	58.9	54.8	49.9	44.1	38.4	31.9	26.2	20.4
145°	57.2	56.4	54.0	50.7	47.4	42.5	37.6	32.7	27.0	22.1	16.3
147.5°	48.2	47.4	45.8	43.3	40.1	36.0	31.9	27.0	22.9	18.0	13.1
150°	40.1	39.2	38.4	35.2	33.5	29.4	26.2	22.1	18.8	13.9	10.6
152.5°	32.7	32.7	31.1	28.6	27.0	23.7	21.3	18.0	14.7	11.4	8.2
155°	26.2	25.3	24.5	22.9	21.3	18.8	16.3	13.9	11.4	8.2	5.7
157.5°	20.4	19.6	18.8	17.2	15.5	14.7	12.3	9.8	7.4	5.7	4.1
160°	14.7	13.9	13.1	12.3	11.4	9.8	8.2	6.5	4.9	3.3	2.5
162.5°	9.8	9.0	9.0	8.2	7.4	5.7	4.9	4.1	3.3	2.5	1.6
165°	4.9	4.9	4.1	4.1	3.3	2.5	2.5	2.5	1.6	1.6	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	770.9	770.9	774.2	773.3	770.9	775.8	781.5
5°	768.4	768.4	770.9	770.9	768.4	773.3	778.3
7.5°	764.4	763.5	766.0	766.0	762.7	766.8	772.5
10°	757.0	756.2	758.6	758.6	755.4	759.5	764.4
12.5°	748.8	747.2	749.6	748.8	745.6	749.6	754.5
15°	738.2	737.4	739.0	737.4	734.1	738.2	743.1
17.5°	727.6	725.1	725.9	725.9	720.2	724.3	728.4
20°	713.7	710.4	711.2	710.4	706.3	708.8	713.7
22.5°	699.8	694.9	694.9	694.1	689.1	692.4	696.5
25°	682.6	676.9	676.9	676.1	670.3	672.8	676.9
27.5°	665.4	659.7	657.3	656.4	650.7	650.7	656.4
30°	647.5	639.3	637.6	635.2	629.5	629.5	634.4
32.5°	630.3	618.8	615.6	612.3	606.6	605.8	611.5
35°	607.4	598.4	592.7	589.4	582.9	581.2	586.1
37.5°	588.6	577.2	569.0	564.9	558.3	555.9	562.4
40°	568.2	555.9	545.3	542.8	533.0	529.7	535.5
42.5°	545.3	532.2	521.6	516.7	509.3	506.0	506.8
45°	522.4	508.5	497.0	490.5	483.1	477.4	480.7
47.5°	498.7	486.4	472.5	462.7	453.7	449.6	451.3
50°	475.0	460.2	447.2	436.5	425.9	421.0	424.3
52.5°	451.3	435.7	421.0	409.6	397.3	392.4	393.2
55°	428.4	412.0	394.8	382.6	371.1	363.8	362.1
57.5°	405.5	387.5	369.5	355.6	340.9	334.4	331.9
60°	381.0	362.1	343.3	327.0	311.5	304.1	300.8
62.5°	358.1	337.6	316.4	299.2	283.7	273.9	271.4
65°	336.0	312.3	291.0	271.4	254.2	243.6	240.3
67.5°	312.3	287.8	264.9	243.6	227.3	213.4	211.7
70°	290.2	264.1	238.7	216.6	198.7	184.8	178.2
72.5°	268.1	241.2	215.0	191.3	168.4	155.3	150.4
75°	246.9	219.1	191.3	166.8	141.4	125.9	121.0
77.5°	227.3	198.7	169.2	142.2	118.5	98.9	92.4
80°	208.5	179.0	148.0	120.2	94.8	73.6	66.2
82.5°	188.8	161.0	129.2	99.7	73.6	51.5	42.5
85°	171.7	143.9	112.0	82.6	56.4	32.7	22.9
87.5°	157.8	127.5	98.9	69.5	42.5	18.8	6.5
90°	143.9	114.4	85.8	57.2	31.9	10.6	0.8
92.5°	131.6	103.8	75.2	49.0	24.5	7.4	0.8
95°	120.2	93.2	66.2	40.9	19.6	4.9	0.8
97.5°	109.5	84.2	58.9	35.2	16.3	4.1	0.8
100°	100.6	76.0	52.3	31.1	13.9	3.3	0.8
102.5°	91.6	68.7	46.6	27.0	12.3	2.5	0.8
105°	84.2	62.1	41.7	24.5	10.6	2.5	0.8
107.5°	76.8	56.4	37.6	21.3	9.0	1.6	0.8
110°	69.5	51.5	33.5	18.8	8.2	1.6	0.8

TEST NUMBER: P1213701

CATALOG NUMBER: 2SNLED-LD5-39HL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	63.8	46.6	30.2	17.2	6.5	1.6	0.8
115°	58.0	41.7	27.0	14.7	5.7	0.8	0.8
117.5°	52.3	37.6	23.7	13.1	4.9	0.8	0.8
120°	47.4	33.5	21.3	11.4	4.1	0.8	0.8
122.5°	42.5	30.2	18.8	9.8	3.3	0.8	0.8
125°	38.4	27.0	16.3	8.2	2.5	0.8	0.8
127.5°	34.3	23.7	14.7	7.4	2.5	0.8	0.8
130°	30.2	21.3	12.3	5.7	1.6	0.8	0.8
132.5°	27.0	18.0	10.6	4.9	1.6	0.8	0.8
135°	23.7	15.5	9.0	3.3	1.6	0.8	0.8
137.5°	20.4	13.1	7.4	2.5	0.8	0.8	0.8
140°	17.2	11.4	5.7	2.5	0.8	0.8	0.8
142.5°	14.7	9.0	4.1	1.6	0.8	0.8	0.8
145°	11.4	7.4	3.3	1.6	0.8	0.8	0.8
147.5°	9.0	5.7	2.5	1.6	0.8	0.8	0.8
150°	6.5	4.1	2.5	0.8	0.8	0.8	0.8
152.5°	4.9	3.3	1.6	0.8	0.8	0.8	0.8
155°	3.3	2.5	1.6	0.8	0.8	0.8	0.8
157.5°	2.5	1.6	0.8	0.8	0.8	0.8	0.8
160°	1.6	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)